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OM protein - protein search, using sw model

Run on: August 13, 2002, 09:28:35 ; Search time 12.99 Seconds
(without alignments)
216.239 Million cell updates/sec

Title: US-09-824-787b-2
Perfect score: 597
Sequence: 1 MSCEPQTSVAPPEEVEPG.....ASNGETLEKTNRPVCVIL 115

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents, AA:*
1: /cgn2_6/ptodata/2/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/2/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/2/1aa/6A.COMB.pep:*
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5: /cgn2_6/ptodata/2/1aa/PCTUS.COMB.pep:*
6: /cgn2_6/ptodata/2/1aa/Dackfilles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	96.5	16.2	88	2	US-08-807-043-3
2	96.5	16.2	88	2	US-09-127-289-3
3	96.5	16.2	93	2	US-08-807-043-1
4	96.5	16.2	93	2	US-09-127-289-1
5	68	11.4	735	4	US-09-115-704-2
6	67	11.2	696	1	US-08-765-081-5
7	67	11.2	696	3	US-09-098-082-5
8	67	11.2	696	5	PCT-US95-06994-5
9	67	11.2	703	5	PCT-US95-06994-8
10	67	11.2	718	5	PCT-US95-06994-6
11	65.5	11.0	606	3	US-08-620-077B-3
12	65.5	11.0	3052	2	US-08-557-122A-26
13	65.5	11.0	3052	4	US-09-262-666-26
14	65	10.9	244	3	US-08-468-318-136
15	65	10.9	244	3	US-08-468-609A-136
16	65	10.9	244	5	PCT-US95-01185-136
17	64.5	10.8	344	2	US-07-857-224B-93
18	64	10.7	505	1	US-08-123-161A-14
19	64	10.7	505	1	US-08-483-278-14
20	64	10.7	1110	1	US-08-118-441-29
21	64	10.7	1110	3	US-08-338-579A-29
22	64	10.7	1110	5	PCT-US94-09851-29
23	63	10.6	485	4	US-08-378-313-25
24	63	10.6	485	4	US-08-378-313-27
25	63	10.6	485	4	US-08-378-313-32
26	63	10.6	923	3	US-08-938-135-6
27	62.5	10.5	310	3	US-08-796-792-4

28	62.5	10.5	421	4	US-09-093-448-4	Sequence 4, Appl1
29	62.5	10.5	433	4	US-09-046-158A-2	Sequence 2, Appl1
30	62.5	10.5	897	1	US-07-960-389-2	Sequence 2, Appl1
31	62	10.4	554	4	US-09-167-299-4	Sequence 4, Appl1
32	61.5	10.3	352	4	US-09-413-814-24	Sequence 24, Appl1
33	61	10.2	492	2	US-08-644-271-32	Sequence 23, Appl1
34	61	10.2	552	5	PCT-US93-07832-23	Sequence 1, Appl1
35	61	10.2	1171	1	US-08-445-135-1	Sequence 8, Appl1
36	61	10.2	2647	2	US-08-583-562B-8	Sequence 47, Appl1
37	61	10.2	2647	2	US-08-779-113-8	Sequence 125, App
38	60	10.1	124	4	US-08-983-607-47	Sequence 125, App
39	60	10.1	244	3	US-08-469-318-125	Sequence 125, App
40	60	10.1	244	3	US-08-469-318-153	Sequence 125, App
41	60	10.1	244	3	US-08-468-609A-125	Sequence 125, App
42	60	10.1	244	3	US-08-468-609A-153	Sequence 125, App
43	60	10.1	244	5	PCT-US95-01185-125	Sequence 125, App
44	60	10.1	244	5	PCT-US95-01185-153	Sequence 153, App
45	60	10.1	506	2	US-08-849-480A-5	Sequence 5, Appl1

ALIGNMENTS

RESULT 1
US-08-807-043-3
Sequence 3, Application US/08807043
Patent No. 5856131
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Goll, Surya K.
TITLE OF INVENTION: NOVEL HUMAN SELENOPROTEIN
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/807,043
FILING DATE: Herewith
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0202 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 88 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 993035
US-08-807-043-3
Query Match 16.2%, Score 96.5, DB 2, Length 88;
Best Local Similarity 34.1%, Pred. No. 0.00032;

STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/127,289
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/807,043
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0202 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 93 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: BLADNOT03
CLONE: 1599862
US-09-127-289-1

Query Match 16.2%; Score 96.5; DB 2; Length 93;
Best Local Similarity 32.8%; Pred. No. 0.00035;
Matches 21; Conservative 18; Mismatches 20; Indels 5; Gaps 3;

QY 23 VRIYVEYCEPCGCEATYELASAVKEQYPS-IEI--ESRLSGTGAREIEINGOLVSKLE 79
DB 11 VRYV--YCGAGXGKSKYLLDKKLEDEFGRLDICEGTSQAGFEVWAGLHKKK 68

QY 80 NGGF 83
69 GDCY 72

RESULT 5
US-09-115-704-2
Sequence 2, Application US/09115704
Patent No. 6211436
GENERAL INFORMATION:
APPLICANT: Kossmann, Jens
APPLICANT: Froberg, Claus
TITLE OF INVENTION: NUCLEIC ACID MOLECULES FROM PLANTS ENCODING ENZYMES
FILE REFERENCE: GFB-6
CURRENT APPLICATION NUMBER: US/09/115,704
CURRENT FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: PCT/EP97/00158
EARLIER FILING DATE: 1997-01-15
EARLIER APPLICATION NUMBER: DE 196 01 365.8
EARLIER FILING DATE: 1996-01-16
NUMBER OF SEQ ID NOS: 2
SOFTWARE: Patentlin Ver. 2.0
SEQ ID NO 2
LENGTH: 735
TYPE: PRT
ORGANISM: Zea mays
US-09-115-704-2

Query Match 11.4%; Score 68; DB 4; Length 735;
Best Local Similarity 26.8%; Pred. No. 16;
Matches 22; Conservative 14; Mismatches 34; Indels 12; Gaps 3;

QY 21 SGVRIYVEYCEPCGCEATYELASAVKEQYPS-IEI--ESRLSGTGAREIEINGOLVSKLEN 80
DB 617 SDMEIVPSMEPCG-----LQWAMRYGVPVVRTGGLNDSVFDLDETIPEVRN 669

QY 81 GGFY----EKDLIAIRASN 98
DB 670 -GFTFLKADQDFGNALERN 690

RESULT 6
US-08-765-081-5
Sequence 5, Application US/08765081
Patent No. 5798260
GENERAL INFORMATION:
APPLICANT: Tarr, P.I., Bilge, S.S., Besser, T.E., Vary Jr., J.C.
TITLE OF INVENTION: Escherichia coli 0157:H7 epithelial Adhesin
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Christensen, O'Connor, Johnson and Kindness
STREET: 2800 Pacific First Center, 1420 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98101-2347
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette-3.5 inch, 1.44mb storage
COMPUTER: IBM PC compatible/Pentium
OPERATING SYSTEM: MS-Windows 3.1
SOFTWARE: Word for Windows-6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/765,081
FILING DATE: March 26, 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/06994
FILING DATE: June 7, 1995
APPLICATION NUMBER: US 08/265,714
FILING DATE: June 24, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Shelton, Dennis K.
REGISTRATION NUMBER: 26,997
REFERENCE/DOCKET NUMBER: CHOR-1-10286
TELECOMMUNICATION INFORMATION:
TELEPHONE: 1-206-682-8100; 1-206-224-0718 (direct)
TELEFAX: 1-206-224-0779
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 696 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-765-081-5

Query Match 11.2%; Score 67; DB 1; Length 696;
Best Local Similarity 29.0%; Pred. No. 20;
Matches 18; Conservative 11; Mismatches 23; Indels 10; Gaps 2;

QY 39 YLELASAVKEQYPS-IEI--ESRLSGTGAREIEINGOLVSKLEN--GFPYEDLIEAIRASN 98
DB 59 YHDLAALR-SVSGVVESTGKTGSLISIKRMPA-----SYLLILDGVAGGS 108

QY 99 GE 100
DB 109 SD 110

RESULT 7
US-09-098-082-5
Sequence 5, Application US/09098082

```

STATE: WASHINGTON
COUNTRY: USA
ZIP: WA 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT-US95/06994
FILING DATE: 07-JUN-95
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/265,714
FILING DATE: 24-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: BRODERICK, THOMAS F
REGISTRATION NUMBER: 31,332
REFERENCE/DOCKET NUMBER: CHOR-18591
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 682 8100
TELEFAX: (206) 224 0779
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 696 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-06994-5

Query Match      11.2%; Score 67; DB 5; Length 696;
Best Local Similarity 29.0%; Pred. No. 20;
Matches 18; Conservative 11; Mismatches 23; Indels 10; Gaps 2

QY   39 YLELSAVKEDEYPGIEIRSLGGTGAFELIENGQLVFSKLENKGPPPELDLEAIRASN 98
     |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db   59 YHDLAEALR-SVEGVDVESGTGKTGLSTINGMPA-----SYTLILIDVRQGGS 108
QY   99 GE 100
Db   109 SD 110

RESULT          9
PCT-US95-06994-8
Sequence 8, Application PC/TUS9506994
GENERAL INFORMATION:
APPLICANT: Children's Hospital & Medical Center
APPLICANT: University of Washington
APPLICANT: Washington State University Research Foundation
APPLICANT: TARR, PHILLIP I
APPLICANT: BILGE, SIMA S
APPLICANT: BESSER, THOMAS E
APPLICANT: VARY JR, JAMES C
TITLE OF INVENTION: ESCHERICHIA COLI O157:H7 EPITHELIAL ADHESIN
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESSES:
ADDRESSEE: CHRISTENSEN, O'CONNOR, JOHNSON AND KINDNESS PLLC
STREET: SUITE 2800, 1420 FIFTH AVENUE
CITY: SEATTLE
STATE: WASHINGTON
COUNTRY: USA
ZIP: WA 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/06994
FILING DATE: 07-JUN-95
CLASSIFICATION:

```

APPLICANT: Upchurch, Robert G.
 APPLICANT: Callahan, Terence M.
 APPLICANT: Ethreshaft, Marilyn
 TITLE OF INVENTION: Fungal Gene Encoding Resistance to the
 TITLE OF INVENTION: phytoalexin Cercosporin
 NUMBER OF SEQUENCES: 3
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: USDA-ARS-OTT
 STREET: Room 407, BLDG. 005, BARC-W
 CITY: Beltsville
 STATE: Maryland
 COUNTRY: USA
 ZIP: 20705
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/620,07B
 FILING DATE: 03/21/96
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Poulos, Gail E.
 REGISTRATION NUMBER: 36,327
 REFERENCE/DOCKET NUMBER: 0045,96
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 301-504-5302
 TELEFAX: 301-504-5060
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 606 amino acids

TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ANTI-SENSE: NO
US-08-620-077B-3

Query Match 11.0%; Score 65.5; DB 3; Length 606;
Best Local Similarity 29.3%; Pred. No. 25;
Matches 29; Conservative 13; Mismatches 32; Indels 25; Gaps 8;

QY 7 QTSVAP-----PPEEYVPGSGVRIVVEYC-----EPGFEATYLELAAVKEQYPIEI-E 56
DB 450 QSNVAVQYTLPRPAQIPAGSLVLFVRLGSAIPGIGSVLDTTLASRL-----GTEVAE 504
QY 57 SRLGGTGAFEIINGOLVFSKLEN--GGPYEKDLIEA 92
DB 505 QAVGGTGATEIR-----SKLDNIFGAGTPEARDALDA 536

8-557-122A-26
Sequence 26, Application US/08557122A
Patent No. 5879664
GENERAL INFORMATION:
APPLICANT: Hjort, Carsten Mailand
TITLE OF INVENTION: Fungal Protein Disulfide Isomerase
NUMBER OF SEQUENCES: 38
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 58796640 No. 5879664disk of No. 5879664th America, Inc.
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/557,122A
FILING DATE: 11-DEC-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 3980, 204-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
LENGTH: 3052 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-557-122A-26

Query Match 11.0%; Score 65.5; DB 2; Length 3052;
Best Local Similarity 24.5%; Pred. No. 2.5e+02;
Matches 35; Conservative 17; Mismatches 44; Indels 47; Gaps 7;

QY 6 GQTSVAPPEEVE-----PGSGVRIVEY-----CEPCGEATYLELA 43
DB 2643 GMDSTANVEAVKVSFPTLKFPPASADRTVIDYNGERTLDGFKFLESGGMDSTANVE 2702
QY 44 SAVKEQYGIETESRLGTGAFEIINGOLV---FSK-LENGGFYEIDLLEAIRAS-- 97

DB 2703 AVKHSFPTLKFFP--AGPGRTVIDYNGERTLDGFKFLESGGMDSTANVEAVKHSFP 2760
QY 98 -----NGE-TLE 103
DB 2761 TLKFFPAGSGRNVIDYNGERTLE 2783

RESULT 13
US-09-262-666-26
Sequence 26, Application US/09262666
Patent No. 6346244
GENERAL INFORMATION:
APPLICANT: Hjort, Carsten Mailand
TITLE OF INVENTION: Fungal Protein Disulfide Isomerase
NUMBER OF SEQUENCES: 38
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 63462440 No. 6346244disk of No. 6346244th America, Inc.
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/262,666
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/557,122
FILING DATE: 11-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 3980, 204-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
LENGTH: 3052 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-262-666-26

Query Match 11.0%; Score 65.5; DB 4; Length 3052;
Best Local Similarity 24.5%; Pred. No. 2.5e+02;
Matches 35; Conservative 17; Mismatches 44; Indels 47; Gaps 7;

QY 6 GQTSVAPPEEVE-----PGSGVRIVEY-----CEPCGEATYLELA 43
DB 2643 GMDSTANVEAVKVSFPTLKFPPASADRTVIDYNGERTLDGFKFLESGGMDSTANVE 2702
QY 44 SAVKEQYGIETESRLGTGAFEIINGOLV---FSK-LENGGFYEIDLLEAIRAS-- 97
DB 2703 AVKHSFPTLKFFP--AGPGRTVIDYNGERTLDGFKFLESGGMDSTANVEAVKHSFP 2760
QY 98 -----NGE-TLE 103
DB 2761 TLKFFPAGSGRNVIDYNGERTLE 2783

RESULT 14
US-08-469-318-136
Sequence 136, Application US/08469318
Patent No. 6022535
GENERAL INFORMATION:

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1  APPLICANT:
2  TITLE OF INVENTION: Multivariant IL-3 Hematopoiesis Fusion
3  TITLE OF INVENTION: Protein
4  NUMBER OF SEQUENCES: 196
5  COMPUTER READABLE FORM:
6  MEDIUM TYPE: Floppy disk
7  COMPUTER: IBM PC compatible
8  OPERATING SYSTEM: PC-DOS/MS-DOS
9  SOFTWARE: Patentin Release #1.0, Version #1.30 (Epo)
10 CURRENT APPLICATION DATA:
11 APPLICATION NUMBER: US/08/469,318
12 FILING DATE:
13 CLASSIFICATION:
14 PRIOR APPLICATION DATA:
15 APPLICATION NUMBER: 08/446,872
16 FILING DATE:
17 INFORMATION FOR SEQ ID NO: 136:
18     SEQUENCE CHARACTERISTICS:
19         LENGTH: 244 amino acids
20         TYPE: amino acid
21         STRANDEDNESS:
22         TOPOLOGY: linear
23     MOLECULE TYPE: protein
24     US-08-469-318-136

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